



PCT09

## RAW SEQUENCE LISTING

DATE: 08/06/2002

PATENT APPLICATION: US/09/937,009A

TIME: 16:45:02

Input Set : A:\00200170.app

Output Set: N:\CRF3\08062002\I937009A.raw

P.6

ENTERED

3 <110> APPLICANT: Alessi, Dario  
 4 Balendran, Anudharan  
 5 Deak, Maria  
 6 Currie, Richard  
 7 Downes, Peter  
 8 Casamayor, Antonio  
 10 <120> TITLE OF INVENTION: Enzyme  
 12 <130> FILE REFERENCE: 002.00170  
 14 <140> CURRENT APPLICATION NUMBER: US 09/937,009A  
 15 <141> CURRENT FILING DATE: 2000-03-17  
 17 <150> PRIOR APPLICATION NUMBER: PCT/GB00/01004  
 18 <151> PRIOR FILING DATE: 2000-03-17  
 20 <150> PRIOR APPLICATION NUMBER: GB 9906245.7  
 21 <151> PRIOR FILING DATE: 1999-03-19  
 23 <160> NUMBER OF SEQ ID NOS: 34  
 25 <170> SOFTWARE: PatentIn Ver. 2.1  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 24  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Homo sapiens  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: region B of PRK2  
 35 <400> SEQUENCE: 1  
 36 Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Gln Glu Met Phe Arg Asp  
 37 1 5 10 15  
 39 Phe Asp Tyr Ile Ala Asp Trp Cys  
 40 20  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 24  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Artificial Sequence  
 48 <220> FEATURE:  
 49 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic  
 50 peptide sequence that interacts with human PRK2  
 51 region B  
 53 <400> SEQUENCE: 2  
 54 Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Gln Glu Met Ala Arg Asp  
 55 1 5 10 15  
 57 Phe Asp Tyr Ile Ala Asp Trp Cys  
 58 20  
 61 <210> SEQ ID NO: 3  
 62 <211> LENGTH: 24  
 63 <212> TYPE: PRT

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64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic
68     peptide sequence that interacts with human PRK2
69     region B
71 <400> SEQUENCE: 3
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76           20
79 <210> SEQ ID NO. 4
80 <211> LENGTH: 53
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
84 <220> FEATURE
85 <223> OTHER INFORMATION: region A of PRK2
87 <400> SEQUENCE: 4
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89   1           5           10           15
91 Leu Met Asp Lys Lys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly
92           20           25           30
94 Arg Glu Asp Val Ser Asn Phe Asp Asp Glu Phe Thr Ser Glu Ala Pro
95           35           40           45
97 Ile Leu Thr Pro Pro
98           50
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 23
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <220> FEATURE:
107 <223> OTHER INFORMATION: region of PKC zeta
109 <400> SEQUENCE: 5
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114           20
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118 <211> LENGTH: 6
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <220> FEATURE:
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125 <400> SEQUENCE: 6
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127   1           5
130 <210> SEQ ID NO: 7
131 <211> LENGTH: 23
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens

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135 <220> FEATURE:
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143           20
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147 <211> LENGTH: 11
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <220> FEATURE:
152 <223> OTHER INFORMATION: region of PKB alpha
154 <400> SEQUENCE: 8
155 Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser
156   1           5           10
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 9
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <220> FEATURE:
165 <223> OTHER INFORMATION: region of PRK1
167 <400> SEQUENCE: 9
168 Thr Phe Cys Gly Thr Pro Glu Phe Leu
169   1           5
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 6
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <223> OTHER INFORMATION: region of PKC zeta
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181 Phe Glu Gly Phe Glu Tyr
182   1           5
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186 <211> LENGTH: 13
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <220> FEATURE:
191 <223> OTHER INFORMATION: region of PDK1
193 <400> SEQUENCE: 11
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195   1           5           10
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199 <211> LENGTH: 28
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer

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206 <400> SEQUENCE: 12
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213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence:human PKB alpha
217     substrate peptide
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221   1           5
224 <210> SEQ ID NO: 14
225 <211> LENGTH: 77
226 <212> TYPE: PRT
227 <213> ORGANISM: Homo sapiens
229 <220> FEATURE:
230 <223> OTHER INFORMATION: region of PRK2
232 <400> SEQUENCE: 14
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234   1           5           10           15
236 Leu Met Asp Lys Lys Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly
237           20           25           30
239 Arg Glu Asp Val Ser Asn Phe Asp Asp Glu Phe Thr Ser Glu Ala Pro
240           35           40           45
242 Ile Leu Thr Pro Pro Arg Glu Pro Arg Ile Leu Ser Glu Glu Glu Gln
243           50           55           60
245 Glu Met Phe Arg Asp Phe Asp Tyr Ile Ala Asp Trp Cys
246   65           70           75
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250 <211> LENGTH: 77
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens
254 <220> FEATURE:
255 <223> OTHER INFORMATION: region of PRK1
257 <400> SEQUENCE: 15
258 Glu Asp Val Lys Lys Gln Pro Phe Phe Arg Thr Leu Gly Trp Glu Ala
259   1           5           10           15
261 Leu Leu Ala Arg Arg Leu Pro Pro Pro Phe Val Pro Thr Leu Ser Gly
262           20           25           30
264 Arg Thr Asp Val Ser Asn Phe Asp Glu Glu Phe Thr Gly Glu Ala Pro
265           35           40           45
267 Thr Leu Ser Pro Pro Arg Asp Ala Arg Pro Leu Thr Ala Ala Glu Gln
268           50           55           60
270 Ala Ala Phe Leu Asp Phe Asp Phe Val Ala Gly Gly Cys
271   65           70           75
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 80
276 <212> TYPE: PRT

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277 <213> ORGANISM: Homo sapiens
279 <220> FEATURE:
280 <223> OTHER INFORMATION: region of PKB alpha
282 <400> SEQUENCE: 16
283 Lys Glu Ile Met Gln His Arg Phe Phe Ala Gly Ile Val Trp Gln His
284   1           5           10           15
286 Val Tyr Glu Lys Lys Leu Ser Pro Pro Phe Lys Pro Gln Val Thr Ser
287           20           25           30
289 Glu Thr Asp Thr Arg Tyr Phe Asp Glu Glu Phe Thr Ala Gln Met Ile
290           35           40           45
292 Thr Ile Thr Pro Pro Asp Gln Asp Asp Ser Met Glu Cys Val Asp Ser
293           50           55           60
295 Glu Arg Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Thr Ala
296   65           70           75           80
302 <210> SEQ ID NO: 17
303 <211> LENGTH: 75
304 <212> TYPE: PRT
305 <213> ORGANISM: Homo sapiens
307 <220> FEATURE:
308 <223> OTHER INFORMATION: region of P70S6k
310 <400> SEQUENCE: 17
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312   1           5           10           15
314 Leu Leu Ala Arg Lys Val Glu Pro Pro Phe Lys Pro Leu Leu Gln Ser
315           20           25           30
317 Glu Glu Asp Val Ser Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro
318           35           40           45
320 Val Asp Ser Pro Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val
321           50           55           60
323 Phe Leu Gly Phe Thr Tyr Val Ala Pro Ser Val
324   65           70           75
327 <210> SEQ ID NO: 18
328 <211> LENGTH: 82
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo sapiens
332 <220> FEATURE:
333 <223> OTHER INFORMATION: region of SGK
335 <400> SEQUENCE: 18
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337   1           5           10           15
339 Leu Ile Asn Lys Lys Ile Thr Pro Pro Phe Asn Pro Asn Val Ser Gly
340           20           25           30
342 Pro Asn Glu Leu Arg His Phe Asp Pro Glu Phe Thr Glu Glu Pro Val
343           35           40           45
345 Pro Asn Ser Ile Gly Lys Ser Pro Asp Ser Val Leu Val Thr Ala Ser
346           50           55           60
348 Val Lys Glu Ala Ala Glu Ala Phe Leu Gly Phe Ser Tyr Ala Pro Pro
349   65           70           75           80
351 Thr Asp

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 2,3  
Seq#:23; Xaa Pos. 6  
Seq#:24; Xaa Pos. 2,3,5,6  
Seq#:25; Xaa Pos. 1,2,3,4,5,6  
Seq#:26; Xaa Pos. 1,2,3,4,5,6  
Seq#:27; Xaa Pos. 1,2,3,4,5,6  
Seq#:28; Xaa Pos. 1,6  
Seq#:30; Xaa Pos. 1,2,3,4,5,6